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Attorney Docket No. 566/42763

Page 3

## **IN THE SPECIFICATION**

P	age 1, before Paragraph 1, please delete the following:
	———Specification
_	Prior Art
P	lease insert the following before Paragraph 1:
	BACKGROUND AND SUMMARY OF THE DISCLOSURE
[0001]	The invention disclosure is based on a brake application system for
	vehicles, particularly for rail vehicles, containing a wear adjuster-constructed as a
	tie rod or plunger rod adjuster and as part of a brake actuator having a helical gear
	which is provided with a threaded spindle and a nut to be screwed to the
	latterthreaded spindle, as the screw connection parts, according to the type of
	Claim 1.
[0002]	A brake application system of this type is known from European Patent
	Document EP 0 699 846 A2, which describes a. The wear adjuster for rail vehicle
	brakes in the form of tie rod and plunger rod adjusters which, in the case of a brake
	pad and brake disc wear, keep the brake pad play constant. This takes place by a
	change of length of the helical gear, in the case of plunger rod adjusters, an
	increasing adjuster length causing a reduction of the brake pad play. The drive of
	the known helical gear operates mechanically by way of a brake linkage with a
	plunger rod which, in the event of an excess stroke of a brake actuator constructed
	as a pneumatic cylinder - piston driving gear, is operated by a rocker lever. An
	emergency release of the brake acted upon by braking power takes place by way of
	the pneumatic brake actuator; for. For the auxiliary release in the case of a brake
	pad exchange, the threaded spindle is rotated manually.
[0003]	The present invention is based on the object of further developing a brake

application system of the initially mentioned type such that it requires less space and its operation is easier and simpler. Furthermore, a more precise adjusting of the brake pad play should be achievable.(CANCELED)

[0004]

According to the invention, this object is achieved in that The present brake application system includes one screw connection part of the helical gear is being electrically driven for the wear adjustment and the other screw connection part of

the helical screw is being electrically driven for the emergency and/or auxiliary release of the brake.

- Advantages of the Invention

[0005]

As a result of the electric drive of the one screw connection part of the helical gear for the wear adjustment, the known brake linkage can be eliminated. Since the electric drive unit has a smaller size than the brake linkage, space and weight are saved. The electric control lines can be integrated in a simple manner in different vehicle models and can be laid in a space-saving manner. Furthermore, as a result of the electric operation in comparison to a mechanical operation, a more precise adjusting of the brake pad play can be achieved.

[0006]

In addition, according to the invention, both functions - the wear adjusting, on the one hand, and the emergency and/or auxiliary release, on the other hand - are implemented by means of one and the same helical gear-so that,. Thus, by a combination of functions in one assembly, additional space and weight can be saved. The auxiliary release, which so far had to be carried out separately in a manual manner for each and on each brake application system, is replaced by an electrically remotely operated auxiliary release, for example, from an engineer's cab of the rail vehicle. In particular, all brake application systems of the rail vehicle can be released by a common and one-time control, whereby the maintenance time is reduced.

[0007]

By means of the measures indicated in the subclaims, advantageous further developments and improvements of the invention indicated in Claim 1 can be achieved.(CANCELED)

[8000]

According to a preferred embodiment of the invention, fFor the electric actuating of the one screw connection part, an electric drive unit is provided which consists of an electric motor with a gearing arranged on the output side, t. The gearing output being is rotationally coupled with an electrically actuated screw connection part. The electric motor preferably is may be a d.c. motor; t. The gearing contains a planetary gear axially adjoining the electric motor as well as one or more gearwheel stages arranged behind this planetary gearing.

[0009]

Particularly preferable measures provide a A clutch by which the one screw connection part, in the event of the presence of an axial force originating from a

braking, can be non-rotatably coupled with a non-rotatable part, for example, a housing and otherwise can be uncoupled therefrom. As a result, the screw connection part loaded by way of the caliper levers of the brake application system by the braking power is supported on the housing and not on the electric drive unit, which. Thus, the electric drive unit can therefore be dimensioned to be smaller, was-which also contributes to a reduction of the size.

[00010]

According to a further development, a sliding A slip clutch is arranged between the electric drive unit and the one screw connection part, which sliding. The slip clutch is constructed to be sliding throughslip when stop positions are reached and is otherwise coupling. One stop position is formed, for example, by the application of the brake pads on the brake disc, and a. Another stop position is formed by a screw connection end position in which the one screw connection part is screwed to the stop into the other screw connection part or vice-versa. In the latter case, the one screw connection part would be rotated along with the other screw connection part, and the rotating movement would be undesirably transmitted to the electric drive unit. The sliding slip clutch therefore protects the electric drive unit from impacts when the stop positions are reached in that it slides through in order to permit the motor to softly and gradually conclude its rotating movement and uncouples it from torques introduced by way of other components. The sliding slip clutch is preferably connected between the coupling and the electric drive unit.

[00011]

In a particularly preferable manner, tThe electric drive unit of the one screw connection part can be actuated independently of an electric drive unit of the other screw connection part. As a result, the functions combined in one assembly- the wear adjustment, on the one hand, and the emergency and/or auxiliary release, on the other hand - can be carried out individually and independently of one another.

------Drawings

[00012]

An embodiment of the invention is illustrated in the drawing and will be explained in detail in the following description. These and other aspects of the present disclosure will become apparent from the following detailed description of the disclosure, when considered in conjunction with accompanying drawings.

Attorney Docket No. 566/42763 Page 6

## BRIEF DESCRIPTION OF THE DRAWINGS

[00013]

Figure 1 is a longitudinal sectional view of a plunger rod adjuster of a brake application system of a rail vehicle according to a preferred embodiment the present disclosure in a position moved out toof the maximal length;

[00014]

Figure 2 is a view of the plunger rod adjuster of Figure 1 in a position moved in toof the minimal length.

Description of the Embodiment

## DETAILED DESCRIPTION OF THE DRAWINGS

[00015]

For reasons of scale, Figure 1 shows only a wear adjuster 1 in the form of a plunger rod adjuster as part of an electromechanically, pneumatically or hydraulically operable brake application system which, according to a preferred embodiment, is intended for may be used in an urban railway or a subway, which. The plunger rod adjuster, in the position illustrated in Figure 1, is in a position moved out to the maximal length, which corresponds to a high wear condition of the brake pads.

[00016]

The plunger rod adjuster 1 contains a helical gear 2 which, as the screw connection parts, has a threaded spindle 4 and a nut 8 which can be screwed onto this threaded spindle 4 by means of a trapezoidal thread 6 and is constructed as a tube-type part. The trapezoidal thread 6 preferably-is not self-locking. For the wear adjustment, the plunger rod adjuster 1 is designed to be operated electrically, for which a. An electric drive unit 10 is provided which consists of an electric motor 12 with a gearing 14 connected behind it, whose gearing output is preferably rotationally coupled with the threaded spindle 4. As an alternative, the nut 8 or the threaded spindle 4 and the nut 8 can also be designed to be electrically operated for adjusting the wear.

[00017]

The electric motor is formed, for example, by a d.c. motor 12, and the gearing 14 is formed by a planetary gearing 16 axially adjoining the d.c. motor 12 as well as by a gearwheel stage 18 connected to the output side of the planetary gearing 16. The d.c. motor 12, the planetary gearing 16 and the gear wheel stage 18 are arranged parallel to and at a radial distance from the center axis 20 of the helical gear 2 and are housed in a drive housing 22 flanged to a housing part 24, shown on the left in Figure 1, of the plunger rod adjuster 1, to which plunger rod

adjuster 1 a. A left caliper lever (not shown) of a caliper of the brake application system is linked, which caliper lever is not shown to the plunger rod adjuster 1. A housing part 26 which, viewed in the axial direction of the helical gear 2, is on the right is situated opposite the left housing part 24 and the right caliper lever of the caliper is linked to this right housing part 26. Such a caliper is sufficiently known and is described, for example, in European Patent Document EP 0 699 846 A2, to whose entire disclosure content reference is made here. The spacing of the left housing part 24 and the right housing part 26 of the plunger rod adjuster 1 are held on one another at a spacing variable is varied by means of the helical gear 2 in that, b. By extending the helical gear 2 or the plunger rod adjuster 1, a wear adjustment can take place and the pad play between the brake pads and the brake disc, which enlarges with time, can be reduced again and can be held at a constant value.

[00018]

The gearing-output-side gearwheel 28 of the gearwheel stage 18 meshes with a screw-side gearwheel 30-which, by means of a deep groove ball bearing 32, Gearwheel 28 is coaxially rotatably disposed on a cylindrical projection 34 of a conical sleeve 36 by a deep-groove ball bearing 32. By means of a sliding A slip clutch 38 arranged on the side of the screw-side gearwheel 30 pointing to the right housing part 26, couples the electric drive unit 10 is coupled with the conical sleeve 36. The sliding slip clutch 38 contains balls 40, which are pretensioned by a defined spring pressure in grooves constructed on the face of the screw-side gearwheel 30 and which are guided in bores 42 of a ring 44 non-rotatably held on the cylindrical projection 34 of the conical sleeve 36. At torques greater than a defined slipping moment, the form closure generated by the balls 40 pressed into the grooves is overcome and the clutch 38 slides throughslips, whereby the electric drive unit 10 is uncoupled from the threaded spindle 4. By the appropriate selection of the spring parameters and of the ball - groove geometry, the slipping moment can be adapted to the momentarily existing requirements. In the present case, the clutch 38 slides throughslips when the brake application system reaches stop positions, such as the position in which the brake pads come to rest on the brake disc or the position in which the plunger rod adjuster 1 is shortened to the minimal length (Figure 2) and the threaded spindle 4 is completely screwed into the nut 8.

[00019]

The driving torque transmitted by means of the sliding-slip clutch 38 to the ring 44 is introduced into the conical sleeve 36, on whose bottom a. A pin-shaped projection 46 on the end of conical sleeve 36 has a is present whose radially outer surface which forms a bearing surface of a slide-slip bearing 48, which. The bearing surface is slidably and rotatably disposed in a housing-side bearing surface assigned to it. The slide-slip bearing 48 is used as a bearing point of the threaded spindle 4, which bearing point is on the left side in Figure 1. The threaded spindle 4, in turn, is screwed by means of an end-side threaded pin 50 into an internal thread existing in the projection 46 of the conical sleeve 36 and is held there in a non-rotatable manner. As a result, the conical sleeve 36 can transmit the driving torque introduced by way of the sliding slip clutch 38 to the threaded spindle 4.

[00020]

A cone clutch 52 eontaining contains at least two conical surfaces 56, 58, which can be stopped by mutual friction against one another and are arranged in an oblique manner viewed in the axial direction, is arranged. The cone clutch 52 is in front of the electric drive unit 10, with one of the conical surfaces 56 being constructed on the left housing part 24 and the other conical surface 58 being constructed on the conical sleeve 36 screwed to the threaded spindle 4. When the threaded spindle 4 is axially loaded, the two conical surfaces 56, 58 are pressed against one another in the direction of the conical narrowing, w. Whereby, the respectively taken-up rotating position of the threaded spindle 4 is fixed by frictional engagement or adherence and the axial load is supported by the left housing part 24. In particular, a transmission of the axial load as a torque to the electric drive unit 10 is prevented. If, in contrast, no axial load is present, the cone clutch 52 is in the released state and the conical sleeve 36, together with the threaded spindle 4, can rotate freely with respect to the left housing part 24.

[00021]

The tube-type nut 8 projects into a stepped passage opening 60 of the right housing part 26 and is rotatably disposed there by means of a deep-groove ball bearing 62 but is axially displaceably disposed with respect to its inner race. A sleeve 66 is non-rotatably and axially fixedly held in the end of the nut 8 which points away from the left housing part 24-and, by means of its. An outer circumference, of the sleeve 66 rests slidingly on a seal 64 received in the passage opening 60 of the right housing part 26, t. The end of the sleeve 66 projecting out

of the passage opening 60 being is equipped with an application surface 68 for a screwing tool. In addition, by means of a sliding A slip clutch 70, couples the nut 8 is coupled with a coaxial free-wheel sleeve 71 of a lockable free wheel 74 which, on the one hand,. The lockable free wheel 74 is axially displaceably held on the nut 8 and, on the other hand, is supported by way of a thrust bearing 76 preferably that may be constructed as an axial needle bearing against a radial wall 78 of the right housing part 26. The nut 8 is therefore disposed in a thrust bearing.

[00022]

The sliding slip clutch 70 is preferablymay be formed by two contrate side face gearings 80, 82 meshing with one another by spring pressure in the axial direction. One contrate side face gearing 80 is constructed on a radially outer ring collar of the end of the nut 8 projecting into the right housing part 26, and the other contrate side face gearing 82 is constructed on the radially inner circumferential surface of the free-wheel sleeve 72.

[00023]

By means of aA coil spring 86 is supported at one end on the deep-groove ball bearing 62 and at the other end on an outer step 84 of the nut 8, t. The nut 8 is pretensioned by the coil spring 86 against the free-wheel sleeve 72, so that the two contrate-side face gearings 80, 82 are in a mutual engagement. When a slipping moment is exceeded, the two contrate-side face gearings 80, 82 are disengaged while the nut 6 is axially displaced in the direction of the left housing part 24, whereby the nut 8 can rotate with respect to the free-wheel sleeve 72. The slipping moment of the sliding-slip clutch 70 can be adapted by the suitable selection of the spring parameters and of the contrate-side face gearings 80, 82.

[00024]

In the right housing part 26, an electric drive unit 112 is accommodated for the emergency release and the auxiliary release of the brake application system, "e. "Emergency release" being is a braking power reduction of the brake application system acted upon by braking power, for example, in the event of a failure of the brake actuator, and "auxiliary release" being is a release of the brake not acted upon by braking power for maintenance work, for example, for changing the brake pads.

[00025]

The electric drive unit 112 consists of an electric motor-preferably eonstructed as, for example, a d.c. motor 114, of a planetary gearing 116 as well as of a gearwheel stage 118, so that the two electric drive units 10, 112 preferably

have an identical construction. The gearing-output-side gearwheel 120 of the gearwheel stage 118 meshes with a toothed sleeve 96 which is coaxial with the helical gear 2-and-which is. The toothed sleeve 96 is rotatably accommodated in the right housing part 26 and is radially spaced by an annulus 102 with respect to a housing surface 100 which is flush with the radially outer circumferential surface 98 of the free-wheel sleeve 72 and axially adjoins the circumferential surface 98 of the free-wheel sleeve 72. A wrap-coil spring 104 which is coaxial with respect to the center axis 20 of the helical gear 2 and has two pin-type ends 106, 108 bent away oppositely in the radial direction is accommodated in the annulus 102, o. One end 106 being is form-lockingly held in a radial passage bore of the toothed sleeve 96, and the other end 108 being is form-lockingly held in a radial passage bore of the free-wheel sleeve 72.

[00026]

The toothed sleeve 96, the wrap-coil spring 104, the free-wheel sleeve 72 and the housing surface 100 together form a lockable free wheel as a wrap-coil spring free wheel 74, which couples the electric drive unit 112 with the nut 8. More precisely, the wrap-coil spring free wheel 74 is, on the one hand, constructed for rotatingrotates the nut 8 by means of the electric drive unit 112 in a direction against the wear adjustment and, on the other hand, for locking locks this rotation when the rotation of the nut 8 is not caused by the electric drive unit 112. The above-described sliding slip clutch 70 is arranged between the nut 8 and the wrap coil spring free wheel 74.

[00027]

Relative to an imagined point of intersection of the center axis 20 of the helical gear 2 and an imagined vertical center line of the plunger rod adjuster 1, the two electric drive units 10, 112 are arranged essentially point-symmetrically with respect to one another, in which case. Also, they point toward one another starting from the end of the threaded spindle 4 or of the nut 8. More precisely, the drive unit 10 for the wear adjustment projects essentially from the drive-side end of the threaded spindle 4 in the direction of the drive unit 112 for the emergency and auxiliary release, and the latter drive unit 112 projects essentially from the drive-side end of the nut 8 in the direction of the drive unit 10 for the wear adjustment. Both drive units 10, 112 actuate a single helical gear 2 for the combined wear adjustment and emergency or auxiliary release.

[00028]

The right and the left housing part 24, 26 each consists of housing sections 122, 124 which are essentially symmetrical relative to the center axis 20 of the helical gear 2. The drive units 10, 112 is in each case are accommodated in one-a separate housing section 122, and one. A final position sensor 126 respectively is accommodated in each the housing section 124 arranged on the other sideopposite sides of the center axis 20, which from each other. The final position sensor 126 is situated opposite a face-side surface 128 of the drive housing 22 of the respectively other electric drive unit 10, 112. The final position sensors are preferably constructed in the form of may be mechanical final position switches 126, which. They are each actuated by the application of engaging the face-side surface 128 of the drive housing 22 of the opposite drive unit 10, 112 when reaching the position illustrated in Figure 2, in which the plunger rod adjuster 1 has moved in to the minimal length. The actuated switches 126and supply a signal for reaching the position illustrated in Figure 2, in which the plunger rod adjuster 1 has moved in to the minimal length, to a control device, which is not shown for reasons of scale, whereupon the respectively actuated drive unit 10, 112 is de-energized. At their ends pointing away from one another, the two housing sections 122, 124 of each housing part 24, 26 are in each case provided with one receiving device 132 for bolts, by which one caliper lever respectively of the caliper is linked to each housing part 24, 26.

[00029]

Furthermore, a wrap coil spring 138 of another wrap coil spring free wheel 140 is arranged on a cylindrical projection 134 of the planetary-gearing-side gearwheel 136 of the gearwheel stage 18 assigned to the drive unit 10 for the wear adjustment. This wrap coil spring free wheel 140 blocks a rotation of the gearwheel 136 in the direction against the wear adjustment and permits it to run freely in the opposite rotating direction.

[00030]

As a result of the described construction of the plunger rod adjuster 1, by means of and specifically a single helical gear 2, of which one screw connection part respectively is coupled with a separate drive unit, which is independent of the other drive unit,. The brake pad wear can be corrected, and the brake can be released for emergencies and/or in an auxiliary manner. specifically Specifically, on the one hand, the threaded spindle 4 is coupled with one electric drive unit 10,

and, on the other hand, the nut 8 is coupled with the other electric drive unit 112, the brake pad wear can be corrected and the brake can be released for emergencies and/or in an auxiliary manner.

[00031]

Based on this background, the method of operation of the plunger rod adjuster 1 is as follows:

[00032]

The wear adjustment, that is, the reduction of the brake pad play, which exists between the brake pads and the brake disc and which has become too large as a result of wear, takes place in the brake-power-free brake release position. For this purpose, the d.c. motor 12 of the electric drive unit 10 provided for the wear adjustment is controlled for a predetermined time and causes the threaded spindle 4 to rotate in one rotating direction by way of the sliding slip clutch 38 closed in the case of a driving torque which is smaller than the slipping moment, d. During which the rotating movement, the threaded spindle 4 is screwed out of the nut 8 and the plunger rod adjuster 1 is thereby lengthened, which results in a reduction of the brake pad play. Figure 2 1 shows the plunger rod adjuster 1 in a position in which it is moved out to its maximal length. Since the helical gear 2 is thereby loaded by only very low axial forces, the cone clutch 52 is in the released position, so that the threaded spindle can rotate freely. The nut-side wrap coil spring free wheel 74 blocks a rotating-along of the nut 8, which is not secured against a rotation per se, because a r. Rotation of the nut 8 is transmitted by way of the sliding slip clutch 70 to the free-wheel sleeve 72 and from there to the wrap-coil spring 104 which then pulls tight and establishes a frictionally engaged connection between the free-wheel sleeve 72 and the housing surface 100, whereby. Thus, the nut 8 is non-rotatably supported on the right housing part 26.

[00033]

During a braking, the bearing pressure force resulting from the braking power existing at the brake pads and transmitted by way of the hinged caliper levers of the caliper to the plunger rod adjuster 1 and acting there in the axial direction, could not be supported on the helical gear 2 because the trapezoidal thread 6 between the threaded spindle 4 and the nut 8 does not have a self-locking construction. As a result, the plunger rod adjuster 1 would be shortened under the influence of the axial pressure force and thus causes an undesirable loss of braking power-would be caused. However, the cone clutch 52 closes under the effect of the

axial load by the pressing-together of the mutually assigned conical surfaces 56, 58 in a frictionally engaged manner and establishes a non-rotatable connection between the threaded spindle 4 and the left housing part 24. On the other hand, the nut-side sliding clutch 70 constructed as a contrate side face gearing 80, 82 remains closed under axial load and transmits the moment of reaction to the wrap coil spring 104 which then pulls tight and supports the moment of reaction at the right housing part 26. As a result, there is no shortening of the plunger rod adjuster 1 and thus no unintended loss of braking power can occur during a braking operation.

[00034]

If a fault occurs, in the case of a brake actuator, which generates the braking power of the brake application system, or in its control, which has the result that the brake actuator can no longer release the brake acted upon by the braking power, this brake has to be subjected to an emergency release. For the emergency release of the brake, the electric drive unit 112 is preferably controlled for the emergency and/or auxiliary release from the engineer's cab of the urban railroad or subway, s. Specifically, the coil spring 104 is in a rotating rotated in a direction in which the wrap spring 104 is expanded texpands. and, aAs a result, the previously existing frictional engagement between the free-wheel sleeve 72 and the housing surface 100 is eliminated, whereby. Thus, the nut 8 has a free run in this rotating direction. The wrap-coil spring 104 can therefore transmit the rotating movement introduced into it by way of the toothed sleeve 96 to the free-wheel sleeve 72, by which the. This rotation is transmitted to the now freely running nut 8 by way of the sliding slip clutch 70 which is closed because it is not overloaded. As a result, the plunger rod adjuster 1 is shortened and the braking power is reduced. The plunger rod adjuster 1 can thereby be shortened to the minimal length illustrated in Figure 2 in which the nut 8 on the face side comes in contact with the bottom of the conical sleeve 36 and the final position switches 126 are actuated.

[00035]

If, for maintenance work, the brake is to be moved into a position in which the brake pads are at a maximal distance from the brake disc, for example, for exchanging the brake pads, the an auxiliary release of the brake can also take place by way of the electric drive unit 112 for the emergency and/or auxiliary release in

Page 14

the manner described above (auxiliary release). Since, however, tThe torque is limited which can be transmitted by means of the nut-side wrap coil spring 104 expanded by the driving torque and is subjected to a bending stress, in the cases in which the helical gear 2 is stiff, for example, because of icing. In this case, the nut 8 is rotated directly for shortening the plunger rod adjuster 1. This takes place in the braking-power-free state by applying a screwing tool to the application surface 68 of the sleeve 66 non-rotatably connected with the nut 8, in which case the latter. The nut 8 is manually rotated in a direction in which the plunger rod adjuster 1 is shortened to the minimal length illustrated in Figure 2. The torque must be so large that the sliding slip clutch 70 arranged between the free-wheel sleeve 72 and the nut 8 can slip, while the wrap-coil spring 104 of the wrap-coil spring free wheel 74 blocks the free-wheel sleeve 72 in this direction. In this case, the nut 8 is displaced so farsufficiently away from the free-wheel sleeve 72 in the axial direction that the two eontrate-side face gearings 80, 82 are disengaged.

[00036]

The invention is not limited to plunger rod adjusters 1 of brake application systems but can also be used for tie rod adjusters.

[00037]	List of Reference Numbers
1	Plunger rod adjuster
2	helical gear
4	threaded spindle (screw? translator)
6	trapezoidal thread
8	——— nut
10	electric drive unit
12	electric motor
14	gearing
16	——— planetary gearing
18	gearwheel stage
<del>20</del>	center axis
22	drive housing
24	left housing part
<del>26</del>	right housing part
28	<del>gearwheel</del>
30	gearwheel
32	deep-groove ball bearing
34	cylindrical projection
36	conical sleeve
38	sliding clutch
40	<del>balls</del>
42	bores
44	ring
46	<del>projection</del>
48	slide bearing
50	threaded pin
52	cone clutch
<del>56</del>	conical surface
<del>58</del>	
60	passage opening
62	deep groove ball bearing

P	age	1	6

64	<del>- seal</del>
66	sleeve
68	application surface
70	-sliding clutch
72	free-wheel-sleeve
74	free wheel
76	axial bearing
78	—wall
80	<del>contrate gearing</del>
82	contrate-gearing
84	<del>outer step</del>
86	—coil spring
96	toothed sleeve
98	circumferential surface
100	housing surface
102	<del>annulus</del>
104	<del></del>
106	<del>end</del>
108	<del>end</del>
112	electric drive unit
114	d.c. motor
116	—planetary gearing
118	gearwheel stage
120	<del>gearwheel</del>
122	housing section
124	housing section
126	final position switch
128	<del>surface</del>
132	receiving device
134	<del>projection</del>
136	<del>gearwheel</del>
138	wrap spring

140 wrap spring free wheel (CANCELED)

Although the present disclosure has been described and illustrated in detail, it is to be clearly understood that this is done by way of illustration and example only and is not to be taken by way of limitation. The scope of the present disclosure is to be limited only by the terms of the appended claims.